

WEEK-6 REACT

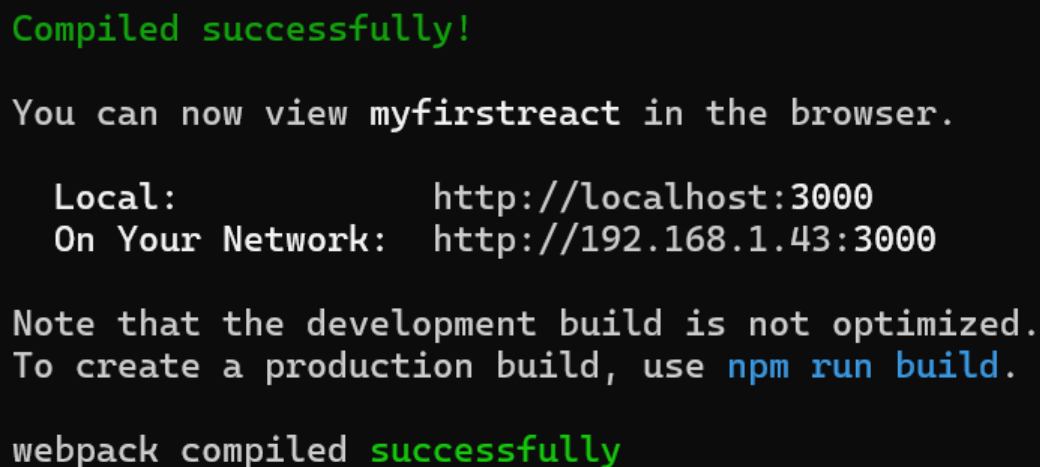
1.REACTJS-HOL

Create a new React Application with the name “myfirstreact”, Run the application to print “welcome to the first session of React” as heading of that page.

App.js(IN VSCODE)

```
import React from 'react';  
  
function App() {  
  return (  
    <div>  
      <h1>Welcome to the first session of React</h1>  
    </div>  
  );  
}  
  
export default App;
```

OUTPUT:



```
Compiled successfully!  
  
You can now view myfirstreact in the browser.  
  
Local:      http://localhost:3000  
On Your Network:  http://192.168.1.43:3000  
  
Note that the development build is not optimized.  
To create a production build, use npm run build.  
  
webpack compiled successfully
```



← → ↻ localhost:3000

Welcome to the first session of React

2.REACTJS-HOL

Create a react app for Student Management Portal named StudentApp and create a component named Home which will display the Message “Welcome to the Home page of Student Management Portal”. Create another component named About and display the Message “Welcome to the About page of the Student Management Portal”. Create a third component named Contact and display the Message “Welcome to the Contact page of the Student Management Portal”. Call all the three components.

Components>Home.js

```
import React from 'react';

function Home() {
  return (
    <div>
      <h2>Welcome to the Home page of Student Management Portal</h2>
    </div>
  );
}

export default Home;
```

About.js

```
import React from 'react';

function About() {
  return (
    <div>
      <h2>Welcome to the About page of the Student Management Portal</h2>
    </div>
  );
}

export default About;
```

Contact.js

```
import React from 'react';
```

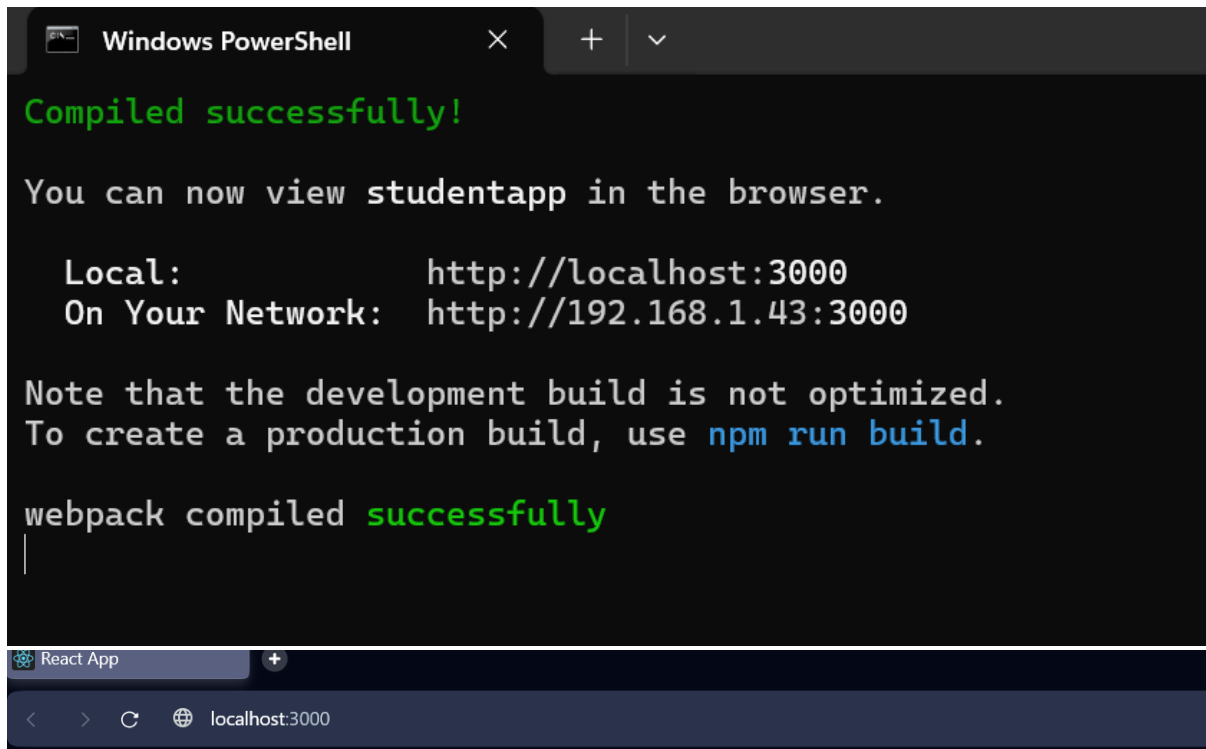
```
function Contact() {  
  return (  
    <div>  
      <h2>Welcome to the Contact page of the Student Management Portal</h2>  
    </div>  
  );  
}  
export default Contact;
```

src > App.js

```
import React from 'react';  
import Home from './Components/Home';  
import About from './Components/About';  
import Contact from './Components/Contact';
```

```
function App() {  
  return (  
    <div className="App">  
      <h1>Student Management Portal</h1>  
      <Home />  
      <About />  
      <Contact />  
    </div>  
  );  
}  
export default App;
```

OUTPUT:



The screenshot shows a Windows PowerShell terminal window with a dark background. The text in the terminal is as follows:

```
Compiled successfully!  
  
You can now view studentapp in the browser.  
  
Local:      http://localhost:3000  
On Your Network: http://192.168.1.43:3000  
  
Note that the development build is not optimized.  
To create a production build, use npm run build.  
  
webpack compiled successfully
```

Below the terminal window, a web browser is visible. The address bar shows 'localhost:3000' and the page title is 'React App'.

Student Management Portal

Welcome to the Home page of Student Management Portal

Welcome to the About page of the Student Management Portal

Welcome to the Contact page of the Student Management Portal

3.REACTJS-HOL

Create a react app for Student Management Portal named scorecalculatorapp and create a function component named "CalculateScore" which will accept Name, School, Total and goal in order to calculate the average score of a student and display the same.

Components> CalculateScore.js

```
import React from 'react';  
  
import '../Stylesheets/mystyle.css';
```

```
function CalculateScore() {  
  const name = "Supraja";  
  const school = "MRECW";
```

```
const total = 450;
const goal = 500;
const average = (total / goal) * 100;
return (
  <div className="score-container">
    <h2>Student Score Details</h2>
    <p><strong>Name:</strong> {name}</p>
    <p><strong>School:</strong> {school}</p>
    <p><strong>Total Marks:</strong> {total}</p>
    <p><strong>Goal:</strong> {goal}</p>
    <p><strong>Average Score:</strong> {average.toFixed(2)}%</p>
  </div>
);
}
export default CalculateScore;
```

mystyle.css

```
.score-container {
  background-color: #f0f8ff;
  border: 2px solid #4caf50;
  padding: 20px;
  margin: 30px auto;
  width: 60%;
  border-radius: 10px;
  box-shadow: 0px 0px 10px rgba(0,0,0,0.2);
  font-family: Arial, sans-serif;
}

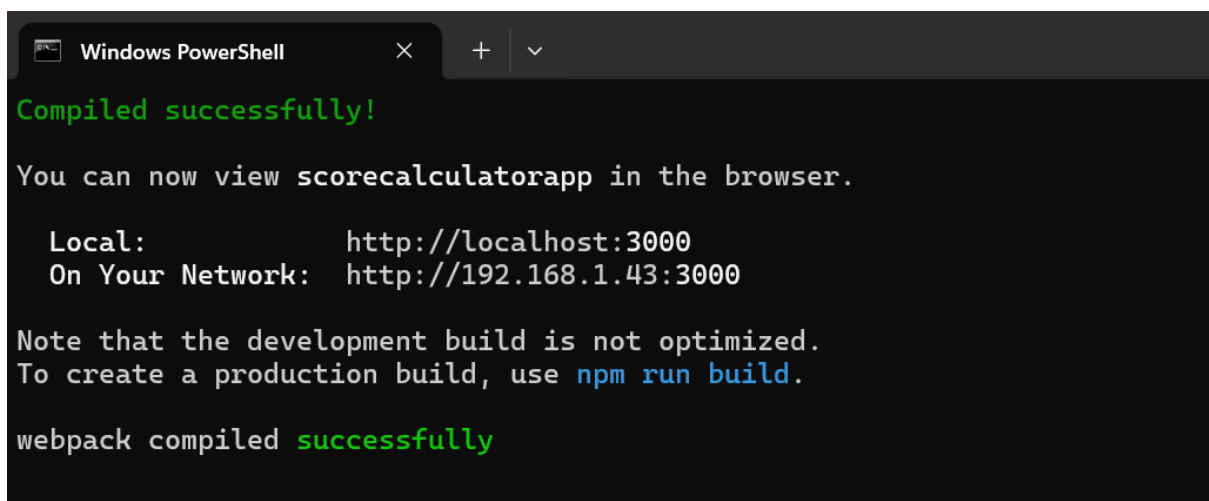
.score-container h2 {
  color: #2e8b57;
  text-align: center;
}
```

```
.score-container p {  
  font-size: 18px;  
  margin: 10px 0;  
}
```

App.js

```
import React from 'react';  
import './App.css';  
import CalculateScore from './Components/CalculateScore';  
  
function App() {  
  return (  
    <div className="App">  
      <CalculateScore />  
    </div>  
  );  
}  
  
export default App;
```

OUTPUT:



```
Windows PowerShell  X  +  v  
  
Compiled successfully!  
  
You can now view scorecalculatorapp in the browser.  
  
Local:      http://localhost:3000  
On Your Network:  http://192.168.1.43:3000  
  
Note that the development build is not optimized.  
To create a production build, use npm run build.  
  
webpack compiled successfully
```



Student Score Details

Name: Supraja

School: MRECW

Total Marks: 450

Goal: 500

Average Score: 90.00%

4.REACTJS-HOL

Create a new react application using *create-react-app* tool with the name as “blogapp”

Post.js

// src/Post.js

```
class Post {  
  constructor(id, title, body) {  
    this.id = id;  
    this.title = title;  
    this.body = body;  
  }  
}
```

export default Post;

Posts.js

// src/Posts.js

```
import React, { Component } from 'react';  
import Post from './Post';
```

```
class Posts extends Component {  
  constructor(props) {
```

```
super(props);
this.state = {
  posts: [],
  hasError: false
};
}
```

// Step 6: Fetch posts

```
loadPosts = () => {
  fetch('https://jsonplaceholder.typicode.com/posts')
    .then(response => {
      if (!response.ok) throw new Error('Network response was not ok');
      return response.json();
    })
    .then(data => {
      const postList = data.map(
        post => new Post(post.id, post.title, post.body)
      );
      this.setState({ posts: postList });
    })
    .catch(error => {
      console.error('Error loading posts:', error);
      this.setState({ hasError: true });
    });
};
```

// Step 7: Call loadPosts after mounting

```
componentDidMount() {
  this.loadPosts();
}
```

// Step 9: Error boundary


```

componentDidCatch(error, info) {
  alert("An error occurred: " + error.toString());
  this.setState({ hasError: true });
}

// Step 8: Render posts
render() {
  if (this.state.hasError) {
    return <h2>Something went wrong while loading posts.</h2>;
  }

  return (
    <div>
      <h1>Blog Posts</h1>
      {this.state.posts.map(post => (
        <div key={post.id} style={{ borderBottom: '1px solid #ccc', marginBottom: '10px' }}>
          <h2>{post.title}</h2>
          <p>{post.body}</p>
        </div>
      ))}
    </div>
  );
}
}

export default Posts;

```

App.js

```

import React from 'react';
import './App.css';
import Posts from './Posts';

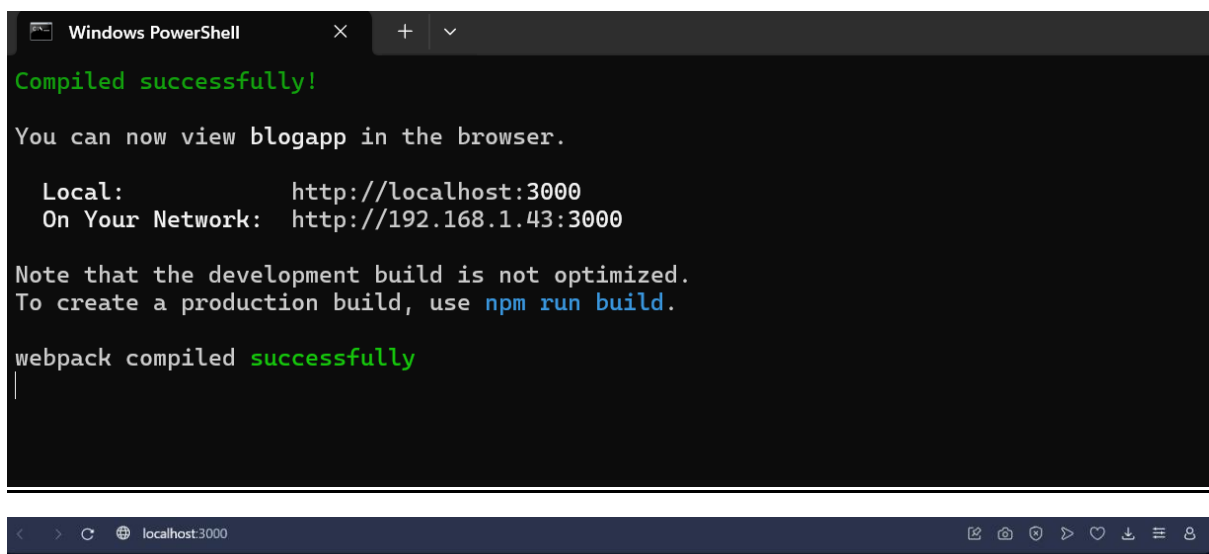
function App() {

```

```
return (  
  <div className="App">  
    <Posts />  
  </div>  
);  
}
```

export default App;

OUTPUT:



The screenshot shows a Windows PowerShell terminal window with the following output:

```
Compiled successfully!  
  
You can now view blogapp in the browser.  
  
Local:      http://localhost:3000  
On Your Network:  http://192.168.1.43:3000  
  
Note that the development build is not optimized.  
To create a production build, use npm run build.  
  
webpack compiled successfully
```

Below the terminal window is a web browser window showing the rendered HTML of a blog post. The browser's address bar shows 'localhost:3000'.

Blog Posts

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5.REACTJS-HOL

CohortDetails.js

```
import styles from './CohortDetails.module.css';
```

```
function CohortDetails(props) {  
  return (  
    <div className={styles.box}>  
      <h3 style={{ color: props.status === "Ongoing" ? "green" : "blue" }}>  
        {props.cohortName}  
      </h3>  
      <dl>  
        <dt>Started On</dt>  
        <dd>{props.startDate}</dd>  
  
        <dt>Current Status</dt>  
        <dd>{props.status}</dd>  
  
        <dt>Coach</dt>  
        <dd>{props.coach}</dd>  
  
        <dt>Trainer</dt>  
        <dd>{props.trainer}</dd>  
      </dl>  
    </div>  
  )  
}
```

```
);  
}  
export default CohortDetails;
```

CohortDetails.module.css

```
.box {  
  width: 300px;  
  display: inline-block;  
  margin: 10px;  
  padding: 10px 20px;  
  border: 1px solid black;  
  border-radius: 10px;  
}  
dt {  
  font-weight: 500;  
}
```

App.js

```
import logo from './logo.svg';  
import './App.css';  
import { CohortsData } from './Cohort'  
import CohortDetails from './CohortDetails';  
  
function App() {  
  return (  
    <div>  
      <h1>Cohorts Details</h1>  
      <CohortDetails  
        cohortName="INTADMDF10 - .NET FSD"  
        startDate="22-Feb-2022"  
        status="Scheduled"  
        coach="Aathma"
```

```

    trainer="Jojo Jose"
  />
<CohortDetails
  cohortName="ADM21JF014 - Java FSD"
  startDate="10-Sep-2021"
  status="Ongoing"
  coach="Apoorv"
  trainer="Elisa Smith"
/>
<CohortDetails
  cohortName="CDBJF21025 - Java FSD"
  startDate="24-Dec-2021"
  status="Ongoing"
  coach="Aathma"
  trainer="John Doe"
/>
</div>

);
}

```

OUTPUT:

```

Microsoft Windows [Version 10.0.26100.4692]
(c) Microsoft Corporation. All rights reserved.

C:\Users\supra>cd C:\Users\supra\AppData\Local\Temp\{F44CD379-FE6C-41F9-8517-DFC576F396B6}\cohorttracker.zip
The directory name is invalid.

C:\Users\supra>cd C:\Users\supra\Documents\cohorttracker

C:\Users\supra\Documents\cohorttracker>npm install
npm warn old lockfile
npm warn old lockfile The package-lock.json file was created with an old version of npm,
npm warn old lockfile so supplemental metadata must be fetched from the registry.
npm warn old lockfile
npm warn old lockfile This is a one-time fix-up, please be patient...
npm warn old lockfile
npm warn deprecated stable@0.1.8: Modern JS already guarantees Array#sort() is a stable sort, so this library is deprecated. See
compatibility table on MDN: https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/sort#browser_c
tibility
npm warn deprecated rimraf@3.0.2: Rimraf versions prior to v4 are no longer supported
npm warn deprecated source-map-url@0.4.1: See https://github.com/lydell/source-map-url#deprecated
npm warn deprecated rollup-plugin-terser@7.0.2: This package has been deprecated and is no longer maintained. Please use @rollup/
plugin-terser
npm warn deprecated source-map-resolve@0.6.0: See https://github.com/lydell/source-map-resolve#deprecated
npm warn deprecated domexception@2.0.1: Use your platform's native DOMException instead
npm warn deprecated source-map-codec@1.4.8: Please use @jridgewell/source-map-codec instead
npm warn deprecated w3c-hr-time@1.0.2: Use your platform's native performance.now() and performance.timeOrigin.
npm warn deprecated glob@7.2.0: Glob versions prior to v9 are no longer supported
npm warn deprecated acorn-import-assertions@1.8.0: package has been renamed to acorn-import-attributes
npm warn deprecated abab@2.0.5: Use your platform's native atob() and btoa() methods instead
npm warn deprecated workbox-google-analytics@6.4.2: It is not compatible with newer versions of GA starting with v4, as long as y
e using GA v3 it should be ok, but the package is not longer being maintained
npm warn deprecated @humanwhocodes/object-schema@1.2.1: Use @eslint/object-schema instead
npm warn deprecated @humanwhocodes/config-array@0.9.3: Use @eslint/config-array instead

```

```
npm warn deprecated core-js-pure@3.21.0: core-js-pure@<3.23.3 is no longer maintained and not recommended for usage due to the number of issues. Because of the V8 engine whims, feature detection in old core-js versions could cause a slowdown up to 100x even if nothing is polyfilled. Some versions have web compatibility issues. Please, upgrade your dependencies to the actual version of core-js-pure@3.21.0: core-js-pure@<3.23.3 is no longer maintained and not recommended for usage due to the number of issues. Because of the V8 engine whims, feature detection in old core-js versions could cause a slowdown up to 100x even if nothing is polyfilled. Some versions have web compatibility issues. Please, upgrade your dependencies to the actual version of core-js.

added 1409 packages, and audited 1410 packages in 57s

69 packages are looking for funding
  run `npm fund` for details

64 vulnerabilities (6 low, 12 moderate, 30 high, 6 critical)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.

C:\Users\supra\Documents\cohortstracker>npm start

  cohortstracker@0.1.0 start
  react-scripts start

Browserslist: caniuse-lite is outdated. Please run:
  npx browserslist --update-db
  or
  npm install -g browserslist@latest
  Search for the keywords to learn more about each warning.
  To ignore, add // eslint-disable-next-line to the line before.

assets by path static/ 1.51 MiB
  asset static/js/bundle.js 1.5 MiB [emitted] (name: main) 1 related asset
  asset static/js/node_modules_web-vitals_dist_web-vitals_js.chunk.js 6.93 KiB [emitted] 1 related asset
  asset static/media/logo.6ce24c58823cc2f8fd88fe9d219db6c6.svg 2.57 KiB [emitted] (auxiliary name: main)
asset index.html 1.67 KiB [emitted]
asset asset-manifest.json 546 bytes [emitted]
runtime modules 31.3 KiB 15 modules
modules by path ./node_modules/ 1.35 MiB 99 modules
modules by path ./src/ 26 KiB
  modules by path ./src/*.css 12.8 KiB
    ./src/index.css 2.72 KiB [built] [code generated]
    ./node_modules/css-loader/dist/cjs.js??ruleSet[1].rules[1].oneOf[5].use[1]!.node_modules/postcss-loader/dist/cjs.js??ruleSet[1].rules[1].oneOf[5].use[2]!.node_modules/source-map-loader/dist/cjs.js!./src/index.css 1.37 KiB [built] [code generated]
    + 4 modules
  modules by path ./src/*.js 9.59 KiB
    ./src/index.js 1.8 KiB [built] [code generated]
    ./src/App.js 1.84 KiB [built] [code generated]
    + 3 modules
  ./src/logo.svg 3.61 KiB [built] [code generated]

WARNING in src/App.js
  Line 1:8:  'logo' is defined but never used  no-unused-vars

webpack 5.68.0 compiled with 1 warning in 17750 ms
```

Cohorts Details

INTADMDF10 - .NET FSD	ADM21JF014 - Java FSD	CDBJF21025 - Java FSD
Started On 22-Feb-2022	Started On 10-Sep-2021	Started On 24-Dec-2021
Current Status Scheduled	Current Status Ongoing	Current Status Ongoing
Coach Aathma	Coach Apoorv	Coach Aathma
Trainer Jojo Jose	Trainer Elisa Smith	Trainer John Doe